Due: November, 8

HMC   Math 142   Fall 2017
Prof. Gu
Problem Set 8
Start this assignment before Sunday night!

Read:

- Baby Do Carmo, Differential Geometry of Curves and Surfaces: Sections 3-4, 3-5 of Chapter 3.

- Review your recent handouts

- Lecture Notes.

Do:

A: Problems from Lectures

- a) Carry out the details for example 4 on page 161 or example 5 on page 162.

B: Other Problems

- a) Problem 1 on page 168, Section 3-3, Baby Do Carmo.

- b) Problem 5 on page 168, Section 3-3, Baby Do Carmo.

- c) Problem 1 on page 227, Section 3-3, Baby Do Carmo.

- d) Problem 6 on page 228, Section 3-3, Baby Do Carmo.

- e) Carry out the detail of example 1 page 232 (Compute the Christoeffl symbols for a surface of revolution)